



Revision Number: 004.0

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** TECHNOMELT PUR 513C known as PURMELT QR 513C  
**Product type:** Polyurethane adhesive  
**Restriction of Use:** This product is for industrial use only.  
**Company address:** Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**IDH number:** 515272

**Region:** United States  
**Contact information:**  
Telephone: (860) 571-5100  
MEDICAL EMERGENCY Phone: Poison Control Center  
1-877-671-4608 (toll free) or 1-303-592-1711  
TRANSPORT EMERGENCY Phone: CHEMTREC  
1-800-424-9300 (toll free) or 1-703-527-3887  
Internet: www.henkelna.com

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

**DANGER:** MOLTEN ADHESIVE MAY CAUSE SEVERE BURNS.  
STATIC CHARGES GENERATED BY EMPTYING PACKAGE IN OR NEAR  
FLAMMABLE VAPORS MAY CAUSE IGNITION.  
VAPORS ABOVE MOLTEN ADHESIVE MAY CAUSE EYE, SKIN AND  
RESPIRATORY TRACT IRRITATION.  
CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.  
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING  
DIFFICULTIES IF INHALED.  
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED  
EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

**PICTOGRAM(S)****Precautionary Statements**

**Prevention:** Do not breathe dust or fumes. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. In case of inadequate ventilation wear respiratory protection.

**Response:** IF ON SKIN: Wash with plenty of water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

**Storage:**  
**Disposal:**

rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Take off contaminated clothing.  
Not prescribed  
Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Polyurethane prepolymer	Proprietary	60 - 100
Methylenebis(phenylisocyanate)	101-68-8	1 - 5
Methylene bisphenyl isocyanate	26447-40-5	0.1 - 1

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
<b>Skin contact:</b>	Molten adhesive may cause severe burns. Cool melted product on skin with plenty of water. Do not remove solidified product. Cover affected areas with clean sheeting or gauze and seek immediate medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing as damaged skin can be easily torn.
<b>Eye contact:</b>	If eye contact occurs with molten material immediately cool with water. Do not remove adhesive. Seek medical attention.
<b>Ingestion:</b>	If material is ingested, immediately contact a physician or poison control center.
<b>Symptoms:</b>	See Section 11.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide. Use extinguishing measures appropriate to local circumstances and the surrounding environment.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	None

**Hazardous combustion products:**

Thermal decomposition can lead to release of irritating gases and vapors.  
Oxides of carbon. Hydrogen cyanide. Isocyanate vapors.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:**

Do not allow material to contaminate ground water system.

**Clean-up methods:**

Ensure adequate ventilation. Wear protective clothing, gloves and safety glasses. Spilled material will solidify. Scrape up spilled material and place in a closed container for disposal.

## 7. HANDLING AND STORAGE

**Handling:**

Avoid skin contact with molten resins. Follow suggested application temperature. Do not place wet or damp solid into melt tank.

**Storage:**

For safe storage, store at or below 38 °C (100.4 °F)

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Polyurethane prepolymer	None	None	None	None
Methylenebis(phenylisocyanate)	0.005 ppm TWA	0.02 ppm (0.2 mg/m3) Ceiling	None	None
Methylene bisphenyl isocyanate	None	None	None	None

**Engineering controls:**

Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination. Heat only in areas with appropriate exhaust ventilation. Do not make the container seal gastight.

**Respiratory protection:**

A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended when: airborne concentrations of isocyanate are known to exceed 0.005 ppm; operations are performed in a confined space or area with limited ventilation; material is heated or sprayed. Concentrations greater than the TLV can occur when MDI is sprayed, heated or used in a poorly ventilated area. Observe OSHA regulations for respirator use (29 CFR 1910.134).

**Eye/face protection:**

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

**Skin protection:**

Insulated gloves and long sleeved clothing are strongly recommended when working with molten adhesive.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Solid

**Color:**

Off white

**Odor:**

None

**Odor threshold:**

Not available.

**pH:**

Not applicable

**Vapor pressure:**

< 0.0001 mm hg (20 °C (68°F)) For MDI

<b>Boiling point/range:</b>	Not available.
<b>Melting point/ range:</b>	65 °C (149°F) (Softening Point)
<b>Specific gravity:</b>	1.2
<b>Vapor density:</b>	Not determined
<b>Flash point:</b>	> 180 °C (> 356°F)
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Autoignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not applicable
<b>Solubility in water:</b>	Not soluble. Reacts with water to liberate carbon dioxide gas.
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>VOC content:</b>	0 %; 0 g/l
<b>Viscosity:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	None under normal use.
<b>Incompatible materials:</b>	Humid air and/or water will produce carbon dioxide which will pressurize the container.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Container can be pressurised by carbon dioxide due to reaction with humid air and/or water.

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Eyes, Skin, Inhalation

### Potential Health Effects/Symptoms

<b>Inhalation:</b>	Methylene bisphenyl isocyanate (MDI) vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Repeated exposure may lead to respiratory sensitization reactions, producing an asthma-like condition.
<b>Skin contact:</b>	Molten adhesive may cause severe burns. May cause skin irritation. Repeated or prolonged skin contact may result in allergic sensitization.
<b>Eye contact:</b>	Can cause mechanical irritation if dusts are generated. Liquid or vapor can cause moderate to severe irritation. Molten adhesive in eyes will cause severe and permanent damage.
<b>Ingestion:</b>	Ingestion causes irritation and effects similar to inhalation.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Polyurethane prepolymer	None	No Records
Methylenebis(phenylisocyanate)	Inhalation LC50 (RAT, 4 h) = 0.38 mg/l Inhalation LC50 (RAT, 4 h) = 0.369 mg/l	Irritant, Respiratory, Allergen
Methylene bisphenyl isocyanate	None	Allergen, Irritant, Mutagen, Respiratory

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyurethane prepolymer	No	No	No
Methylenebis(phenylisocyanate)	No	No	No
Methylene bisphenyl isocyanate	No	No	No

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** This product is not a RCRA hazardous waste when discarded. Processing, use, or contamination of this product may change the hazard classification and waste management options. Dispose of according to Federal, State and local governmental regulations.

**Hazardous waste number:** Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### Water Transportation (IMO/IMDG)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None  
**Exceptions:** None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

**TSCA 12 (b) Export Notification:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.

**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health

**CERCLA/SARA Section 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Methylenebis(phenylisocyanate) (CAS# 101-68-8).

**California Proposition 65:** No California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information

**CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

## 16. OTHER INFORMATION

**This safety data sheet contains changes from the previous version in sections: 2, 3 and related sections.**

**Prepared by:** Timothy Pratt, Regulatory Affairs Specialist

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